

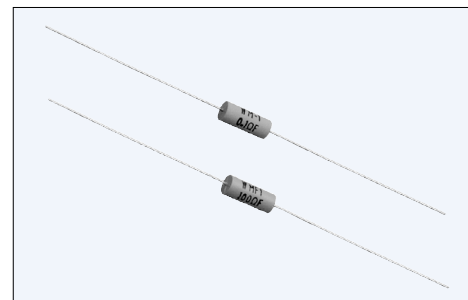
POWER TYPE SILICON MOLD WIRE-WOUND RESISTORS

WM / WMF

Features :

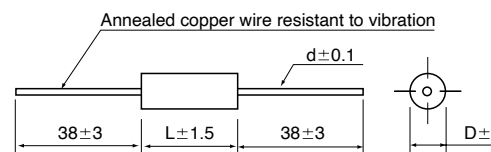
- Excellence in internal heat dissipation due to its heat-resistant silicone mold (noncombustible)
- Stable load life characteristics
- Excellence in moisture resistance and chemical resistance, making it possible for cleaning in the state of being mounted on PCBs

Inductive type (WM series) and Non-inductive type (WMF series) are available.



| Type | Wattage Rating (W) | Resistance Range (Ω) | MAX. Working (V) | Resistance Tolerance (%) | Operating Temp. (°C) |
|-------|--------------------|----------------------|------------------|---------------------------------------|----------------------|
| WM-1 | 1 | 0.1~500 | 70 | ±0.5 (D) R ≥ 10Ω | -55 +200 |
| WMF 1 | 1 | 1~100 | 35 | ±1 (F) ±2 (G) ±5 (J) ±10 (K) | |

Dimensions (mm)

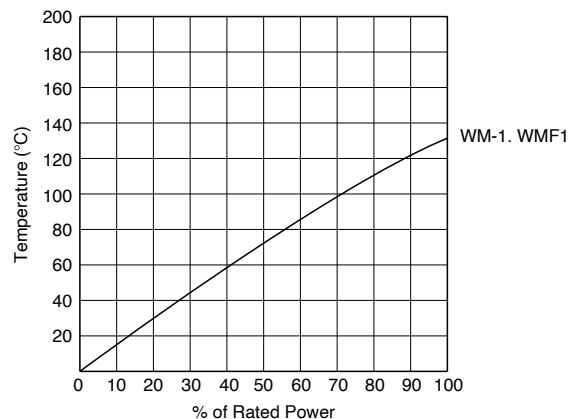


| Type | Dimensions (mm) | | | Weight (g) |
|-----------|-----------------|---|-----|------------|
| | L | D | d | |
| WM-1 WMF1 | 10 | 4 | 0.6 | 0.4 |

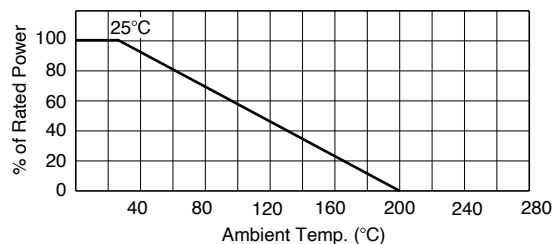
Performance

| Parameters | Test Condition | Specification |
|------------------------|---|---|
| Short Time Over Load | 5x Wattage Rating 5sec | ±(0.2%+0.05Ω) |
| Terminal Strength | 24.5N 30sec | ±(0.1%+0.05Ω) |
| Dielectric Strength | AC500V 1mim | ±(0.1%+0.05Ω) |
| Insulation Resistance | DC500V | 1000MΩ MIN |
| Heat Resistance | Ambient temp. 200°C(+0 °C, -5 °C) 2Hr | No Damage |
| Resistance to Solvents | After dipping in IPA for 60 seconds, rub with absorbent cotton. | No Damage |
| Moisture Resistance | Temp. 40°C. Moisture 95% DC100V 1000Hr | ±(0.2%+0.05Ω) |
| Vibration | JIS C 5202 6.3 | ±(0.2%+0.05Ω) |
| Temp. Coefficient | Standard Temp. +20°C, Test Temp. 0°C 120°C 200°C | R ≥ 10Ω ± 30ppm/°C R < 10Ω ± 50ppm/°C R < 1Ω ± 90ppm/°C |
| Load Life | Wattage Rating 1.5Hr ON, 0.5Hr OFF 1000Hr | ±(1.0%+0.05Ω) |

Surface Temp. Versus Power Load



Ambient Temp. Derating Curve



How to order

WM-1 4.7Ω F
 Type Resistance Tolerance

- Standard Resistance E-24 Series J (±5%)
- In case of Non-inductive type use WMF
- Order for a single piece accepted for any resistance value within the standard resistance range



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